



Image may be representation.
See specifications for product details.



FS32K146UAT0VLQT

| | |
|--------------------------|---------------------------------|
| Manufacturer Part Number | FS32K146UAT0VLQT |
| Manufacturer | NXP Semiconductors |
| Allelco Part Number | 32D-FS32K146UAT0VLQT |
| ECAD Model | PCB Symbol, Footprint & 3D Mode |
| Parts Description | IC MCU 32BIT 1MB FLASH 144LQFP |
| Package | 144-LQFP |
| Data sheet | S32K1xx.pdf |
| RoHs Status | ROHS3 Compliant |

Get a Quote

FS32K146UAT0VLQT - NXP USA Inc..New Original in Stock. Download Linear Technology FS32K146UAT0VLQT datasheet/specifications on AllelcoElec.com. Request a quote for FS32K146UAT0VLQT, please send us email: info@allelco.com

Specifications

FS32K146UAT0VLQT Tech Specifications
FS32K146UAT0VLQT - NXP USA Inc. technical specifications, attributes, parameters

| Product Attribute | Attribute Value | Product Attribute | Attribute Value |
|----------------------------|--------------------|-----------------------|---|
| Manufacturer | NXP Semiconductors | Oscillator Type | Internal |
| Voltage - Supply (Vcc/Vdd) | 2.7V ~ 5.5V | Operating Temperature | -40°C ~ 105°C (TA) |
| Supplier Device Package | 144-LQFP (20x20) | Number of I/O | 128 |
| Speed | 112MHz | Mounting Type | Surface Mount |
| Series | S32K | EEPROM Size | 4K x 8 |
| RAM Size | 128K x 8 | Data Converters | A/D 24x12b SAR; D/A1x8b |
| Program Memory Type | FLASH | Core Size | 32-Bit Single-Core |
| Program Memory Size | 1MB (1M x 8) | Core Processor | ARM® Cortex®-M4F |
| Peripherals | POR, PWM, WDT | Connectivity | CANbus, FlexIO, I ² C, LINbus, SPI, UART/USART |
| Package / Case | 144-LQFP | Base Product Number | FS32K146 |
| Package | Tray | | |

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. FS32K146UAT0VLQT

| Product Attribute | | | | |
|----------------------------|---|---|---|---|
| Part Number | FS32K146UAT0VLQT | FS32K148HAT0MLUT | FS32K146UAT0VLLR | FS32K146UAT0VLHT |
| Manufacturer | NXP USA Inc. | NXP USA Inc. | NXP USA Inc. | NXP USA Inc. |
| Core Size | 32-Bit Single-Core | 32-Bit Single-Core | 32-Bit Single-Core | 32-Bit Single-Core |
| Program Memory Type | FLASH | FLASH | FLASH | FLASH |
| EEPROM Size | 4K x 8 | 4K x 8 | 4K x 8 | 4K x 8 |
| Voltage - Supply (Vcc/Vdd) | 2.7V ~ 5.5V | 2.7V ~ 5.5V | 2.7V ~ 5.5V | 2.7V ~ 5.5V |
| Oscillator Type | Internal | Internal | Internal | Internal |
| Package / Case | 144-LQFP | 176-LQFP | 100-LQFP | 64-LQFP |
| Series | S32K | S32K | S32K | S32K |
| Core Processor | ARM® Cortex®-M4F | ARM® Cortex®-M4F | ARM® Cortex®-M4F | ARM® Cortex®-M4F |
| Mounting Type | Surface Mount | Surface Mount | Surface Mount | Surface Mount |
| Program Memory Size | 1MB (1M x 8) | 2MB (2M x 8) | 1MB (1M x 8) | 1MB (1M x 8) |
| Peripherals | POR, PWM, WDT | I ² S, POR, PWM, WDT | POR, PWM, WDT | POR, PWM, WDT |
| Data Converters | A/D 24x12b SAR; D/A1x8b | A/D 32x12b SAR; D/A 1x8b | A/D 24x12b SAR; D/A1x8b | A/D 24x12b SAR; D/A1x8b |
| Connectivity | CANbus, FlexIO, I ² C, LINbus, SPI, UART/USART | CANbus, Ethernet, FlexIO, I ² C, LINbus, SPI, UART/USART | CANbus, FlexIO, I ² C, LINbus, SPI, UART/USART | CANbus, FlexIO, I ² C, LINbus, SPI, UART/USART |
| Package | Tray | Tray | Tape & Reel (TR) | Tray |
| Speed | 112MHz | 80MHz | 112MHz | 112MHz |
| Operating Temperature | -40°C ~ 105°C (TA) | -40°C ~ 125°C (TA) | -40°C ~ 105°C (TA) | -40°C ~ 105°C (TA) |
| Supplier Device Package | 144-LQFP (20x20) | 176-LQFP (24x24) | 100-LQFP (14x14) | 64-LQFP (10x10) |
| Number of I/O | 128 | 156 | 89 | 58 |
| RAM Size | 128K x 8 | 256K x 8 | 128K x 8 | 128K x 8 |
| Base Product Number | FS32K146 | FS32K148 | FS32K146 | FS32K146 |

FS32K146UAT0VLQT Datasheet PDF

Download FS32K146UAT0VLQT pdf datasheets and NXP USA Inc. documentation for FS32K146UAT0VLQT - NXP USA Inc..

Datasheets


S32K1xx.pdf


PCN Packaging

All Dev Label Update 15/Dec/2020.pdf

Mult Dev Pkg Seal 15/Dec/2020.pdf

Environmental Information

 NXP USA Inc REACH.pdf

 NXP USA Inc RoHS Cert.pdf

PCN Assembly/Origin




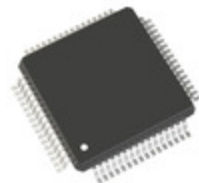














 Mult Dev A/T Site 28/Apr/2021.pdf

PCN Design/Specification

 S32K1xx 18/Nov/2021.pdf

Customers Also Interested in

Recommended Products

| | | | | | |
|---|---|---|--|---|---|
|  |  |  |  |  |  |
| FS32K148HATOMLUT NXP USA Inc. IC MCU 32BIT 2MB FLASH 176LQFP | FS32K146UAVLH FREESCA | FS32K146UATOVLLR NXP USA Inc. IC MCU 32BIT 1MB FLASH 100LQFP | FS32K146UATOVLHT NXP USA Inc. IC MCU 32BIT 1MB FLASH 64LQFP | FS32K146UATOVLL Freescale / NXP Semiconductors | FS32K146HRTOMLLT NXP USA Inc. IC MCU 32BIT 1MB FLASH 100LQFP |
|  |  |  |  |  |  |
| FS32K146HRTOVLLT NXP USA Inc. IC MCU 32BIT 1MB FLASH 100LQFP | FS32K146HRTOVMMHT NXP USA Inc. IC MCU 32BIT 1MB FLASH 100MAPBGA | FS32K146UATOVLLT NXP USA Inc. IC MCU 32BIT 1MB FLASH 100LQFP | FS32K148HATOMMHT NXP USA Inc. IC MCU 32BIT 2MB FLASH 100MAPBGA | FS32K148HATOMLU Freescale / NXP Semiconductors | FS32K146UAVLQ Freescale / NXP Semiconductors |
|  |  |  |  |  |  |
| FS32K146HUAVLH Freescale / NXP Semiconductors | FS32K148HATOMLQT NXP USA Inc. IC MCU 32BIT 2MB FLASH 144LQFP | FS32K148HATOMLLT NXP USA Inc. IC MCU 32BIT 2MB FLASH 100LQFP | FS32K146UATOVLQR NXP USA Inc. IC MCU 32BIT 1MB FLASH 144LQFP | FS32K146UATOVLLT/R Freescale / NXP Semiconductors | FS32K146UATOVLLT Freescale / NXP Semiconductors |

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
 - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

| Common Countries Logistic Time Reference | | |
|--|----------------|--------------------|
| Region | Country | Logistic Time(Day) |
| America | United States | 5 |
| | Brazil | 7 |
| Europe | Germany | 5 |
| | United Kingdom | 4 |
| | Italy | 5 |
| Oceania | Australia | 6 |
| | New Zealand | 7 |
| Asia | India | 6 |
| | Japan | 7 |
| Middle East | Israel | 6 |

| DHL & FedEx Shipment Charges Reference | |
|--|----------------------|
| Shipment charges(KG) | Reference DHL(USD\$) |
| 0.00kg-1.00kg | USD\$60.00 |
| 1.00kg-2.00kg | USD\$70.00 |
| 2.00kg-3.00kg | USD\$80.00 |




Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support

The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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Certifications & Memberships



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